AD11-AD12-AD13-AD14

Professional IP67 Waterproof pH-ORP-TEMPERATURE Pocket Testers with replaceable probe

AD11 and AD12 are the most advanced microprocessor based IP67 Waterproof pH/Temp pocket testers in the market. Fast, stable and precise these testers are for users that require the greatest accuracy. Simple user-replaceable pH/Temp probe: just unscrew the plastic ring on the top of the electrode and replace it with a new one!
2 rows display LCD (reads both pH and temperature measurements) and built-in HOLD function that freezes the display for easy and accurate recording. Other features such as stability indicator, automatic calibration and automatic temperature compensation make these waterproof pocket testers a must-have in a variety of industries.
The modular design allows to replace the electrode in a fast and simple way.
AD13 is a waterproof ORP and temperature meter. The meter is factory calibrated both for ORP (mV) and temperature ranges.
AD14 is designed for simultaneous pH , ORP and Temperature measurements. The large display also has graphic symbols to guide you through the operations. Calibration is performed automatically in 1 or 2 points.

		AD11	AD12	AD13	AD14
Range	pH	-2.0 to 16.0 pH	-2.00 to 16.00 pH		-2.00 to 16.00 pH
	ORP			±1000 mV	±1000 mV
	Temp	-5.0 to 60.0°C 23.0 to 140.0°F	-5.0 to 60.0°C 23.0 to 140.0°F	-5.0 to 60.0°C 23.0 to 140.0°F	-5.0 to 60.0°C 23.0 to 140.0°F
Resolution	pH	±0.1 pH	±0.01 pH		±0.01 pH
	ORP			1 mV	1 mV
	Temp	0.1°C / 0.1°F	0.1°C / 0.1°F		0.1°C / 0.1°F
Accuracy	pH	±0.1 pH	±0.01 pH		±0.01 pH
	ORP			±2 mV	±2 mV
	Temp	±0.5°C / ±1°F	±0.5°C / ±1°F	±0.5°C / ±1°F	±0.5°C / ±1°F

AD31-AD32

Professional IP67 Waterproof Conductivity-TDS-TEMP Pocket Testers with replaceable probe

AD31 and AD32 are waterproof Conductivity, TDS and temperature testers. The housing has been completely sealed against humidity. All Conductivity and TDS readings are automatically temperature compensated (ATC), and temperature values can be displayed in °C or °F units. The Conductivity/TDS conversion factor (CONV) can be selected by the user, as well as the coefficient ß (BETA) for temperature compensation. The instruments can be calibrated at one point. Measurements are highly accurate with a unique stability indicator right on the LCD. The models are also provided with a low battery symbol which warns the user when the batteries need to be replaced.
The AD32P probe supplied with the meters, is interchangeable and can be easily replaced by the user. The encapsulated temperature sensor allows fast and accurate temperature measurement and compensation.

		AD31	AD32
Range	EC	0 to 3999 µS/cm	0.00 to 20.00 mS/cm
	TDS	0 to 2000 ppm	0.00 to 10.00 ppt
	Temp	0.0 to 60.0°C / 32.0 to 140.0°F	0.0 to 60.0°C / 32.0 to 140.0°F
Resolution	EC	1 µS/cm	0.01 mS/ppt
	TDS	1 µS/ppm	0.01 mS/ppt
	Temp	0.1°C / 0.1°F	0.1°C / 0.1°F
Accuracy	EC/TDS	±2 f.s.	±2 f.s.
	Temp	±0.5°C / ±1°F	±0.5°C / ±1°F

AD33-AD34-AD35-AD36

Professional IP67 Conductivity-TDS-TEMPERATURE Pocket Testers with replaceable probe

AD33, AD34, AD35 and AD36 are waterproof Conductivity and TDS testers, that also measure temperature.
The housing has been completely sealed against humidity. All Conductivity and TDS readings are automatically temperature compensated, and temperature values can be displayed in °C or °F units.
Conductivity (or TDS) calibration is automatic at onepoint, while temperature range is factory calibrated and can only be adjusted by the user.
The AD33P probe supplied with the meters, is interchangeable and can be easily replaced by the user. The encapsulated temperature sensor allows fast and accurate temperature measurement and compensation.
To prolong battery life, these models are provided with an auto-off feature that turns them off after 5 minutes of non-use.
Moreover, when batteries become too weak to ensure reliable readings the meter automatically turns off.

		AD33	AD34	AD35	AD36
Range	EC	0 to 1999 µS/cm		0 to 199.9 µS/cm	
	TDS		0 to 1999 ppm		0 to 199.9 ppm
	Temp	0.0 to 60.0°C 32.0 to 140.0°F	0.0 to 60.0°C 32.0 to 140.0°F	0 to 60.0°C 32.0 to 140.0°F	0 to 60.0°C 32.0 to 140.0°F
Resolution	EC	1 µS/cm		0.1 µS/cm	
	TDS		1 ppm		0.1 ppm
	Temp	0.1°C / 0.1°F	0.1°C / 0.1°F	0.1°C / 0.1°F	0.1°C / 0.1°F
Accuracy	EC/TDS	±2% f.s.	±2% f.s.	±2% f.s.	±2% f.s.
	Temp	±0.5°C / ±1°F	±0.5°C / ±1°F	±0.5°C / ±1°F	±0.5°C / ±1°F

ECO209

Continuous pH Indicator

ECO209 is a continuous pH monitor suitable for constant monitoring of pH level of a given water or solution sample such as aquarium tank, ponds, hydroponics systems among others. It is an easy to use, with simple maintenance features automatic temperature compensation for accurate readings at any given ambient, 2 calibration points for better accuracy and an easy to read large LCD display. ECO209 is supplied with a 12V DC adapter, an epoxy body pH probe, buffer solution and a screw driver for calibration purpose, and a stainless steel temperature probe. The gel-filled pH electrode is interchangeable and has been specially designed to address the needs of growers. The open junction system guarantees greater clogging resistance in fertilizer solutions. This is an important improvement ensuring longer life for your electrode.

ECO406-ECO407

Continuous Conductivity & TDS Indicators

These continuous indicators are designed for easy maintenance, simple to read, accurate readings and cost effective purpose, so to meet the general requirements of all range of users. It comes with features such as automatic temperature compensation and single point manual calibration that makes these monitors even more reliable.
The meters are supplied with an epoxy body EC/TDS electrode for a more durable life-span, stainless steel temperature probe for automatic temperature compensation and with calibration solutions and screwdriver for calibration purposes. The ideal tool to monitor your nutrient solution continuously without having to worry about dead batteries.

	ECO406	ECO407
Range	0 to 9.99 mS/cm	0 to 1990 ppm
Resolution	0.01 mS/cm	10 ppm
Accuracy	±2% f.s	±2% f.s.
TDS factor	---	approx. 0.7
Calibration	manual, single point, through trimmer	manual, single point, through trimmer
Temp. compensation	automatic	automatic
Probe	AD3001/2	AD3002/2
Environment	0 to 50°C, 95% RH max	0 to 50°C, 95% RH max
Power supply	external, 12V DC adapter	external, 12V DC adapter
Dimensions	120 x 134 x 54 mm	120 x 134 x 54 mm
Weight approx.	approx. 300 g	approx. 300 g

	ECO209
Range	0.0 to 14.0 pH
Accuracy	±0.2 pH
Resolution	0.1 pH
Calibration	manual, 2 points through trimmer
pH electrode	AD2001B/2
Environment	0 to 50°C, 95% RH max
Power supply	external, 12V DC
Dimensions	120 x 134 x 54 mm
Weight approx.	250 g

ACCESSORIES

Electrodes and Probes

Adwa manufactures a wide range of pH, ORP electrodes and Conductivity probes.

CODE	DESCRIPTION
AD2001B/2	Plastic double junction pH electrode with BNC connector and 2 meters cable
AD2002B/1	Refillable glass body pH electrode with BNC connector and 1 meter cable
AD2005B/1	pH electrode with Epoxy body, BNC connector and 1 meter cable
AD3005D/1	Conductivity probe with built-in temperature sensor with DIN connector and 1 m cable
AD5006	Temperature probe for bench meters and portable meters
AD9315	Electrode holder for bench meters

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AD1000-AD1020

Professional Multi-Parameter pH-ORP-ISE-TEMPERATURE Bench Meters with RS232/USB interface & GLP

AD1000 and AD1020 are professional bench meters with ranges for pH, ORP (Oxidation Reduction Potential), ISE (AD1020 only) and temperature measurements. Relative mV readings are also provided. Main features include:

- Up to 5-point calibration with 7 memorized buffers and two custom buffers
- Calibration time-out alarm
- Log-on-demand (up to 50 samples) and automatic logging (up to 1000 samples)
- Two selectable alarm limits
- User selectable logging interval mode
- HOLD feature to freeze the stable reading on the LCD
- GLP feature to view last calibration data for pH, ISE and relative mV
- PC interface/RS232/USB

AD1000 and AD1020 are supplied complete with AD2002B/1 refillable glass body pH electrode with BNC connector and 1 m cable, AD5006 stainless steel temperature probe with 1 m cable, AD9315 electrode holder, 12 Vdc power adapter, and user manual.

	AD1000/AD1020
Range	-2.00 to 16.00 pH / -2.000 to 16.000 pH ±2000 mV 0.001 to 19999 ppm (AD1020 only) -20.0 to 120.0°C (-4.0 to 248.0°F)
Resolution	0.01 pH / 0.001 pH 0.1 mV (±999.9 mV) / 1 mV (outside) 0.001 ppm (0.001 to 9.999) 0.01 ppm (10.00 to 99.99) 0.1 ppm (100.0 to 999.9) 1 ppm (1000 to 19999) (AD1020 only) 0.1°C (0.1°F)
Accuracy (@20°C/68°F)	±0.01 pH / ±0.002 pH ±0.2 mV up to ±699.9 mV ±0.5 mV up to ±999.9 mV ± 2 mV outside ±0.5% f.s. (for AD1020 only) ±0.4°C (±0.7°F) (excluding probe error)
pH Calibration	Up to 5 point calibration, with 2 custom and 7 standard buffers (pH 1.68, 4.01, 6.86, 7.01, 9.18, 10.01, 12.45)
ISE Calibration	Up to two-point calibration, (AD1020 only) 5 standard solutions available (0.1, 1, 10, 100, 1000 ppm)
PC Interface	USB and RS232

AD1030-AD1040-AD1200

Professional Multi-Parameter pH-ORP-ISE-TEMPERATURE Bench Meters with GLP

AD1030, AD1040 and AD1200 are professional bench meters for pH, ORP (Oxidation Reduction Potential), ISE (AD1200 only) and temperature measurements. Relative mV readings are also provided. Main features include:

- Up to three-point calibration with seven memorized buffers and two custom buffers
- Calibration time-out alarm
- pH calibration using buffers with 0.001 resolution
- pH readings with manual or automatic temperature compensation
- Up to 50 samples for log-on-demand (not for AD1030)
- Two selectable alarm limits
- HOLD feature to freeze the stable reading on the LCD
- GLP feature (not for AD1030) to view last calibration data for pH, ISE and relative mV ranges

AD1030, AD1040 and AD1200 are supplied complete with AD2002B/1 refillable glass body pH electrode with BNC connector and 1 m cable, AD5006 stainless steel temperature probe with 1 m cable, AD9315 electrode holder, 12 Vdc power adapter, and user manual.

	AD1030/AD1040/AD1200
Range	-2.00 to 16.00 pH / -2.000 to 16.000 pH ±2000 mV 0.001 to 19999 ppm (AD1200 only) -20.0 to 120.0°C (-4.0 to 248.0°F)
Resolution	0.01 pH / 0.001 pH 0.1 mV (±999.9) / 1 mV (outside) 0.001 ppm (0.001 to 9.999) 0.01 ppm (10.00 to 99.99) 0.1 ppm (100.0 to 999.9) 1 ppm (1000 to 19999) (AD1200 only) 0.1°C (0.1°F)
Accuracy (@20°C/68°F)	±0.01 pH / ±0.002 pH ±0.2 mV up to ±699.9 mV ±0.5 mV up to ±999.9 mV ±2 mV outside ±0.5% f.s. for ISE (AD1200 only) ±0.4°C (±0.7°F) (excluding probe error)
pH Calibration	Up to 3 point calibration, with 2 custom and 7 standard buffers (pH 1.68, 4.01, 6.86, 7.01, 9.18, 10.01, 12.45)
ISE Calibration	Up to two-point calibration, (AD1200 only) 5 standard solutions available (0.1,1,10,100,1000 ppm)

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AD3000

Professional Multi-Parameter Conductivity-TDS-TEMPERATURE Bench Meter with GLP

AD3000 is a microprocessor-based conductivity, TDS and temperature meter.
The autoranging feature of the EC and TDS ranges automatically sets the instrument to the scale with the highest resolution.
Measurements are compensated for temperature effect automatically (ATC) or manually (MTC) with the conductivity probe with built-in temperature sensor. It is also possible to disable the temperature compensation and measure the actual conductivity.
The temperature coefficient is user selectable. The instrument is equipped with a stability indicator, to indicate when measurement is to be recorded.

AD3000 includes also GLP capability. In addition, the meter allows the user to enter an ID code to uniquely identify the instrument.

AD3000 is supplied complete with AD3005D/1 conductivity probe with built-in temperature sensor and 1 m cable, 12 Vdc power adapter, AD9315 electrode holder and user manual.

	AD3000
Range	0.00 to 19.99 µS/cm; 0.00 to 9.99 ppm 20.0 to 199.9 µS/cm; 10.0 to 99.9 ppm 200 to 1999 µS/cm; 100 to 999 ppm 2.00 to 19.99 mS/cm; 1.00 to 9.99 ppt 20.0 to 199.9 mS/cm; 10.0 to 99.9 ppt -9.9 to 120.0°C
Resolution	0.01, 0.1, 1 µS/cm; ppm 0.01, 0.1 mS/cm; ppt 0.1°C
Accuracy (@20°C/68°F) EC Calibration	±1% f.s. (EC/TDS) ±0.5°C Offset at 0.00 µS/cm; Slope at 1 point with 6 memorized values (84.0, 1413 µS/cm; 5.00, 12.88, 80.0, 111.8 mS/cm) or with custom value

AD8000

Professional Multi-Parameter pH/ORP/Conductivity/TDS/TEMPERATURE Bench Meter with GLP

AD8000 is a microprocessor-based pH, ORP, conductivity, TDS and temperature bench meter. Relative mV feature is also provided.
The autoranging feature of the EC and TDS ranges automatically sets the instrument to the scale with the highest resolution.
pH measurements are compensated for temperature effect automatically (ATC) using AD5006 temperature probe, while the EC readings can be compensated automatically (ATC) using the conductivity probe with builtin temperature sensor or manually (MTC). It is also possible to disable the temperature compensation and measure the actual conductivity. The temperature coefficient is user selectable.
The pH calibration can be performed at 1, 2 or 3 points with five memorized buffers (pH 4.01, 6.86, 7.01, 9.18, 10.01). In addition, AD8000 is provided with calibration timeout alarm, GLP feature to view last calibration data and automatic HOLD feature to freeze the first stable reading on the LCD.
AD8000 is supplied complete with AD20028/1 refillable glass body pH electrode with BNC connector and 1 m cable, AD3005D/1 conductivity probe with built-in temperature sensor and 1 m cable, AD5006 stainless steel temperature probe with 1 m cable, AD9315 electrode holder, 12 Vdc power adapter and user manual.

	AD8000
Range	-2.00 to 16.00 pH / -2.000 to 16.000 pH ±699.9 mV / ± 2000 mV 0.00 to 19.99 µS/cm; 0.00 to 9.99 ppm 20.0 to 199.9 µS/ cm; 10.0 to 99.9 ppm 200 to 1999 µS/cm; 100 to 999 ppm 2.00 to 19.99 mS/cm; 1.00 to 9.99 ppt 20.0 to 199.9 mS/cm; 10.0 to 99.9 ppt -9.9 to 120.0°C (pH range) 0.0 to 100.0°C (EC range)
Resolution	0.01 pH / 0.001 pH 0.1 mV (±699.9 mV) / 1 mV (±2000 mV) 0.01, 0.1, 1 µS/cm; ppm 0.01, 0.1 mS/cm; ppt 0.1°C
Accuracy (@20°C)	±0.01 pH / ± 0.002 pH ±0.2 mV up to ±699.9 mV ±1 mV up to ±2000 mV ±1% f.s. (EC/TDS) ±0.5°C

AD110-AD111

Standard Professional pH-TEMP Portable Meter (AD110) & Standard Professional pH-ORP-TEMP Portable Meter (AD111)

AD110 and **AD111** are compact pH meters featuring automatic pH calibration, HOLD function, low battery indication, temperature measurement and compensation. In addition, **AD111** can measure in the mV range.

AD110 and **AD111** offer you the greatest value-for-money for basic pH, ORP and Temperature measurements. 2 points push-button calibration with auto-buffer recognition in 3 points (pH 4.01, pH 7.01 and pH 10.01).

Auto-off after 8 minutes of non-use conserves energy and lengthens battery life-span.

AD110 is supplied complete with AD2005B/1 pH electrode with Epoxy body, BNC connector and 1 m cable, batteries (4 x 1.5V AA alkaline) and instruction manual.

AD111 is supplied complete with AD2005B/1 pH electrode with Epoxy body, BNC connector and 1 m cable, AD5006 stainless steel temperature probe, 1 m cable, batteries (4 x 1.5V AA alkaline) and instruction manual.

	AD110
Range pH	-2.00 to 16.00 pH
Temp	-5.0 to 105.0°C
Resolution pH	0.01 pH
Temp	0.1°C
Accuracy pH	±0.02 pH
Temp	±0.5°C up to 60°C / ±1°C outside
pH Calibration	automatic, 1 or 2 points, with 3 memorized buffers value
Temp. Calibration	factory
Temperature Compensation	automatic or 25°C fixed

	AD111
Range pH	-2.00 to 16.00 pH
mV	±1000 mV
Temp	-5.0 to 105.0°C
Resolution pH	0.01 pH
mV	1 mV
Temp	0.1°C
Accuracy pH	±0.02 pH
mV	± 2 mV
Temp	±0.5°C up to 60°C / ±1°C outside
pH Calibration	automatic, 1 or 2 points, with 3 memorized buffers value
mV Calibration	factory
Temp. Calibration	factory
Temperature Compensation	automatic or 25°C fixed

AD310-AD410

Standard Professional Conductivity-TDS-TEMPERATURE Portable Meters

AD310 and **AD410** are portable microprocessor-based instruments for measuring EC or TDS, and temperature.

The autoranging feature of the EC and TDS readings automatically sets the instrument to the scale with the highest resolution.
Measurements are compensated for temperature effect automatically (ATC) or manually (MTC). The temperature compensation feature can also be disabled to measure actual conductivity or TDS.

The temperature coefficient is user selectable. The instruments also feature a measurement stability indicator.

Both models are supplied complete with AD3005D/1 conductivity probe with built-in temperature sensor and 1 m cable, batteries (4 x 1.5V AA alkaline) and instruction manual.

	AD310	AD410
Range EC/TDS	19.99 / 199.9 / 1999 µS/cm 19.99 / 199.9 mS/cm	9.99 / 99.9 / 999 ppm 9.99 / 99.9 ppt
Temp	-9.9 to 120.0°C	9.9 to 120.0°C
Resolution EC/TDS	0.01 / 0.1 / 1 µS/cm 0.01 / 0.1 mS/cm	0.01 / 0.1 / 1 ppm 0.01 / 0.1 ppt
Temp	0.1°C	0.1°C
Accuracy EC/TDS	± 1% f.s.	± 1% f.s.
Temp	±0.5°C	±0.5°C
EC/TDS Calibration	Offset: 0.0 µS/cm; Slope: 1 point with 6 memorized standards (84.0, 1413 µS/cm; 5.00,12.88, 80.0, 111.8 mS/cm) or one custom value	Offset: 0.0 ppm; Slope: 1 point with 4 memorized standards (800, 1382 ppm; 6,44,40.0 ppt) or one custom value
Temperature Compensation	automatic or manual -9.9 to 120.0°C	automatic or manual -9.9 to 120.0°C
Temperature	Selectable Coefficient from 0.00 to 6.00%/°C	Selectable Coefficient from 0.00 to 6.00%/°C
Reference Temperature	Selectable at 20.0 or 25.0°C	Selectable at 20.0 or 25.0°C

AD100-AD101

Standard pH Pocket Testers

Microprocessor based pH testers, assure to produce fast and stable readings.

It also comes with features such as automatic temperature compensation, large and easy to read LCD screen, low battery indication, automatic shut-off after 8 minutes and others.

They are also incorporated with easy push buttons for automatic calibration and splashproof keypad that prevents water infiltration.

		AD100	AD101
Range	pH	-2.0 to 16.0 pH	-2.00 to 16.00 pH
Resolution	pH	0.1 pH	0.01 pH
Accuracy	pH	±0.1 pH	±0.02 pH
Calibration		automatic at 1 or 2 points	automatic at 1 or 2 points
Temperature compensation		automatic (0° to 50°C)	automatic (0° to 50°C)

AD203-AD204

Standard Conductivity Pocket Testers

Easy to use, simple maintenance and yet high accuracy Conductivity pocket testers for daily measuring purpose.

With its built-in automatic temperature compensation feature, it ensures accurate readings under any ambient conditions.

Features such as splash-proof keypad prevent water infiltration into the testers, large and easy to read display among others make the testers easy and simple to maintain but yet provide professional measurements.

If calibration is necessary, simply submerge the electrode tip into the calibration solution and adjust the easily accessible trimmer on the side of the tester.

		AD203	AD204
Range	EC	0 to 1999 µS/cm	0.00 to 19.99 mS/cm
Resolution	EC	1 µS/cm	0.01 mS/cm
Accuracy	EC	± 2% f.s	± 2% f.s
Temp. compensation		automatic	automatic

AD201-AD202

Standard TDS Pocket Testers

These pocket testers have a large and easy to read display and for better resolution they also show the full scale readout so to obtain the actual test values.
These TDS pocket testers provide a fast and dependable way to measure the Total Dissolved Solids in your water samples.
The built-in automatic temperature compensation feature ensures accurate readings under any ambient conditions.
The splash-proof keypad prevents water infiltrations into the testers.

If calibration is necessary, simply submerge the electrode tip into the calibration solution and adjust the easily accessible trimmer on the side of the tester.

		AD201	AD202
Range	TDS	0 to 1999 ppm	0.00 to 10.00 g/l
Resolution	TDS	1 ppm	0.01 g/l
Accuracy	TDS	± 2% f.s	± 2% f.s
Conversion factor		0.5 ppm	0.5 ppm
Temp. compensation		automatic	automatic